

S/N 10/019,214

PATENT

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. - 58. (Canceled)

59. (Original) A mutant strain of *H. pylori*, said mutant strain having deactivated at least one gene encoding a glycosyltransferase involved in the biosynthesis of a *H. pylori* lipopolysaccharide (LPS).

60. (Original) A mutant strain according to claim 59, wherein the glycosyltransferase is involved in the biosynthesis of the O-chain of the LPS.

61. (Canceled)

62. (Currently Amended) A mutant according to claim 59, wherein the glycosyltransferase is coded by open reading frame frames 0826, 0159, 0479 or 1191.

63. (Original) A vaccine composition comprising an antigen derived from a mutant strain of *H. pylori* according to claim 59.

64. (Original) A vaccine composition according to claim 63, wherein the antigen is an at least partially purified lipopolysaccharide.

65. (Original) A vaccine composition according to claim 64, wherein the antigen is conjugated to a protein.

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66. (Original) A live attenuated vaccine composition comprising a mutant strain of *H. pylori* according to claim 59.

67. - 70. (Canceled)

71. (New) A mutant according to claim 62, producing LPS molecule with the structure:

